

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- Claim 1. (previously presented) A method for transmission of information in various carrier frequencies with frequency hopping, comprising the following steps:
- offering a table with a plurality of n possible carrier frequency value f_x in addresses 1 through N of the table;
 - generating a sequence of random values;
 - reading out at least a part M of the N carrier frequency values f_x from corresponding addresses of the table on a basis of the generated sequence of random values, $M \leq N$, and transmitting information in the corresponding carrier frequencies, implementing the following steps for setup of a connection:
 - sampling a carrier frequency;
 - deciding whether a message containing at least an initialization information was received on this carrier frequency during a specific time span;
 - when the deciding step is negative, selecting a new carrier frequency and sampling said new carrier frequency; and
 - when the deciding step is positive, generating the sequence of random values upon employment of the initialization information.
- Claim 2. (currently amended) ~~A~~The method according to claim 1, further comprising the step of converting, the generated sequence of random values into address values between 1 and N with which the carrier frequency values are read from the table.
- Claim 3. (currently amended) ~~A~~The method according to claim 1, comprising the following steps:
- implementing a synchronization including the steps of sampling a carrier frequency;

deciding whether a message was received on [this] said carrier frequency during a specific time span;

when the deciding step is negative, selecting a new carrier frequency and sampling said new carrier frequency;

when the deciding step is positive, generating the sequence of random values upon employment of the message.

Claim 4. (currently amended) ~~A~~The method according to claim 1. further comprising the steps of reading out a part M of the N possible carrier frequency values from the table, employing remaining N-M carrier frequency values [are employed] for replacing disturbed carrier frequency values of the M carrier frequency values.

Claim 5. .(currently amended) ~~A~~The method [Method] according to claim 4, further comprising the step of updating from the N-M carrier frequency values before the read-out upon replacement of the carrier frequency values that correspond to disturbed carrier frequencies.

Claim 6. (currently amended) An apparatus for transmission of information in various carrier frequencies with a frequency hopping method, comprising:

a table with a plurality of n possible carrier frequency value f_x in addresses 1 through N of the table;

a random value generator for generating a sequence of random values;

a means for reading out at least a part M of the N carrier frequency values f_x from corresponding addresses of the table on a basis of the generated sequence of random values, $M \leq N$; ~~and~~

a transmitting apparatus for transmitting information in the corresponding carrier frequencies,

a means for setup of a connection that includes:

means for sampling a carrier frequency; and

means for deciding whether a message containing at least an initialization information was received on said carrier frequency during a specific time span

configured such that, when the decision is negative, a new carrier frequency is selected and said new carrier frequency is sampled, and, when the decision is positive, the sequence of random values is generated upon employment of at least the initialization information.

Claim 7. (currently amended) ~~An~~ The apparatus according to claim 6, further comprising:
a means for converting the generated sequence of random values into address values between 1 and N with which the carrier frequency values are read from the table.

Claim 8. (currently amended) ~~An~~ The apparatus according to claim 6, further comprising:
a means for synchronization including:
means for sampling a carrier frequency;
means for deciding whether a message containing at least an initialization information was received on said carrier frequency during a specific time span configured such that, when the decision is negative, a new carrier frequency is selected and said new carrier frequency is sampled, and, when the decision is positive, the sequence of random values is generated upon employment of at least the initialization information.

Claim 9. (currently amended) ~~An~~ The apparatus according to claim 6, wherein the means for readout reads a part M of the N possible carrier frequency values from the table, the remaining N-M carrier frequency values being employed for replacing disturbed carrier frequency values of the M carrier frequency values.

Claim 10. (currently amended) ~~An~~ The apparatus according to claim 9, further comprising a means for updating ~~that updates~~ the table from the N-M carrier frequency values before the read-out upon replacement of the carrier frequency values that correspond to disturbed carrier frequencies.